AMENDMENTS TO THE CLAIMS

Claims 1-33 and 36-50 are pending in the instant application. Claims 1, 12 and 23-33 have been amended. Claims 34-50 have been cancelled without prejudice. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1.   (currently amended) A method for controlling an antenna system, the method comprising:

collecting information associated with a plurality of frames received by a portion of a plurality of antennas;

selecting a receiving antenna from said portion of said plurality of antennas for each one of said received plurality of frames;

determining a selection index value for each one of said portion of said plurality of antennas, based on wherein each of said selection index values indicates [[the]] a number of instances that a corresponding one of said each one of said portion of said plurality of antennas is selected as said receiving antenna over a determined number of said received plurality of frames; and

selecting one or more candidate starting antennas by comparing each of said plurality of selection index values to a majority polling threshold value.

2.   (previously presented) The method according to claim 1, comprising increasing said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

3.   (previously presented) The method according to claim 1, comprising decreasing said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

4.   (previously presented) The method according to claim 1, comprising selecting one starting antenna from said one or more candidate starting antennas.

5.   (previously presented) The method according to claim 4, comprising dwelling on said selected one starting antenna to detect a received signal.

6.   (previously presented) The method according to claim 5, comprising determining an estimated power level for said received signal during said dwelling on said selected one starting antenna.

7.   (previously presented) The method according to claim 5, comprising determining a gain level by performing automatic gain control during said dwelling on said selected one starting antenna.

8.   (previously presented) The method according to claim 5, comprising dwelling on a subsequent antenna selected from among a remaining portion of said portion of said plurality of antennas when a time duration for said dwelling on said subsequent antenna is insufficient to enable performing automatic gain control.

9.   (previously presented) The method according to claim 8, comprising determining an estimated power level for signals received during said time duration based on a determined gain level.

10.   (previously presented) The method according to claim 9, comprising storing each said determined estimated power level that is measured at each selected one of said portion of said plurality of antennas.

11.   (previously presented) The method according to claim 10, comprising selecting one of said portion of said plurality of antennas to receive a remaining portion of a current frame based on said stored plurality of determined estimated power levels.

12.   (currently amended) A computer readable medium having stored thereon, a computer program having at least one code section for controlling an antenna system, the at least one code section being executable by a computer for causing the computer to perform steps comprising:

collecting information associated with plurality of frames received by a portion of a plurality of antennas;

selecting a receiving antenna from said portion of said plurality of antennas for each one of said received plurality of frames;

determining a selection index value for each one of said portion of said plurality of antennas, based on wherein each of said selection index values indicates [[the]] a number of instances that a corresponding one of said each one of said portion of said plurality of antennas is selected as said receiving antenna over a determined number of said received plurality of frames; and

selecting one or more candidate starting antennas by comparing each of said plurality of selection index values to a majority polling threshold value.

13.   (previously presented) The computer readable medium according to claim 12, wherein said at least one code section comprises code for increasing said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

14.   (previously presented) The computer readable medium according to claim 12, wherein said at least one code section comprises code for decreasing said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

15.   (previously presented) The computer readable medium according to claim 12, wherein said at least one code section comprises code for selecting one starting antenna from said one or more candidate starting antennas.

16.   (previously presented) The computer readable medium according to claim 15, wherein said at least one code section comprises code for dwelling on said selected one starting antenna to detect a received signal.

17.   (previously presented) The computer readable medium according to claim 16, wherein said at least one code section comprises code for determining an estimated power level for said received signal during said dwelling on said selected one starting antenna.

18.   (previously presented) The computer readable medium according to claim 16, wherein said at least one code section comprises code for determining a gain level by performing automatic gain control during said dwelling on said selected one starting antenna.

19.   (previously presented) The computer readable medium according to claim 16, wherein said at least one code section comprises code for dwelling on a subsequent antenna selected from among a remaining portion of said portion of said plurality of antennas when a time duration for said dwelling on said subsequent antenna is insufficient to enable performing automatic gain control.

20.   (previously presented) The computer readable medium according to claim 19, wherein said at least one code section comprises code for determining an estimated power level for signals received during said time duration based on a determined gain level.

21.   (previously presented) The computer readable medium according to claim 20, wherein said at least one code section comprises code for storing each said determined estimated power level that is measured at each selected one of said portion of said plurality of antennas.

22. (previously presented) The computer readable medium according to claim 21, wherein said at least one code section comprises code for selecting one of said portion of said plurality of antennas to receive a remaining portion of a current frame based on said stored plurality of determined estimated power levels.

23. (currently amended) A system for controlling an antenna system, the system comprising:

at least one processor that enables collection of information associated with a plurality of frames received by a portion of a plurality of antennas;

said at least one processor is operable to enables select[[ion]] of a receiving antenna from said portion of said plurality of antennas for each one of said received plurality of frames;

said at least one processor is operable to enables determineation of a selection index value for each one of said portion of said plurality of antennas, based-on wherein each said selection index values indicates [[the]] a number of instances that a corresponding one of said each one of said portion of said plurality of antennas is selected as said receiving antenna over a determined number of said received plurality of frames; and

said at least one processor is operable to enables select[[ion]] of one or more candidate starting antennas by comparing each of said plurality of selection index values to a majority polling threshold value.

24. (currently amended) The system according to claim 23, wherein said at least one processor is operable to enables increase[[ing]] said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

25. (currently amended) The system according to claim 23, wherein said at least one processor is operable to enables decrease[[ing]] said majority polling threshold value until a single candidate starting antenna is selected by said comparing.

26. (currently amended) The system according to claim 23, wherein said at least one processor is operable to enables select[[ion]] of one starting antenna from said one or more candidate starting antennas.

27. (currently amended) The system according to claim 26, wherein said at least one processor is operable to enables dwell[[ing]] on said selected one starting antenna to detect a received signal.

28. (currently amended) The system according to claim 27, wherein said at least one processor is operable to enables determineation of an estimated power level for said received signal during said dwelling on said selected one starting antenna.

29. (currently amended) The system according to claim 27, wherein said at least one processor is operable to enables determineation of a gain level by performing automatic gain control during said dwelling on said selected one starting antenna.

30. (currently amended) The system according to claim 27, wherein said at least one processor is operable to enables dwell[[ing]] on a subsequent antenna selected from among a remaining portion of said portion of said plurality of antennas when a time duration for said dwelling on said subsequent antenna is insufficient to enable performing automatic gain control.

31. (currently amended) The system according to claim 30, wherein said at least one processor is operable to enables determineation of an estimated power level for signals received during said time duration based on a determined gain level.

32. (currently amended) The system according to claim 31, wherein said at least one processor is operable to enables store[[ing]] of each said determined estimated power level that is measured at each selected one of said portion of said plurality of antennas.

33.   (currently amended) The system according to claim 32, wherein said at least one processor is operable to ~~enables~~ select[[ion]] ~~of~~ one of said portion of said plurality of antennas to receive a remaining portion of a current frame based on said stored plurality of determined estimated power levels.

34-50. (cancelled)